## Claims

- [c1] An isolated nucleic acid molecule selected from the group consisting of: (a) a nucleic acid molecule having at least about 34 nucleotides wherein said nucleic acid molecule hybridizes with a nucleic acid sequence selected from the group consisting of SEQ ID NO:5, SEQ ID NO:7, SEQ ID NO:8, SEQ ID NO:10, SEQ ID NO:13, SEQ ID NO:15, SEQ ID NO:16, SEQ ID NO:18, SEQ ID NO:38, and SEQ ID NO:39; and (b) a nucleic acid molecule having at least about 30 nucleotides wherein said nucleic acid molecule hybridizes with a nucleic acid sequence selected from the group consisting of SEQ ID NO:26, SEQ ID NO:28, SEQ ID NO:29, SEQ ID NO:31, SEQ ID NO:32, SEQ ID NO:34, SEQ ID NO:35, SEQ ID NO:37, SEQ ID NO:40, SEQ ID NO:41, SEQ ID NO:42, and SEQ ID NO:43, wherein said nucleic acid molecule of (a) or (b) hybridizes under conditions comprising (i) hybridizing in a solution comprising 2X SSC and 0% formamide at a temperature of 37 ° C and (ii) washing in a solution comprising 1X SSC and 0% formamide at a temperature of 52 ° C.
- [c2] The nucleic acid molecule of Claim 1, wherein said nucleic acid molecule is selected from the group consisting of nECR 2822, nECR 1680, nECR 4148, nUSP 1749, nUSP 1344, nUSP 1975 and nUSP 1422
- The nucleic acid molecule of Claim 1, wherein said nucleic acid molecule is selected from the group consisting of: (a) a nucleic acid molecule comprising a nucleic acid sequence selected from the group consisting of SEQ ID NO:5, SEQ ID NO:7, SEQ ID NO:8, SEQ ID NO:10, SEQ ID NO:13, SEQ ID NO:15, SEQ ID NO:16, SEQ ID NO:18, SEQ ID NO:26, SEQ ID NO:28, SEQ ID NO:29, SEQ ID NO:31, SEQ ID NO:32, SEQ ID NO:34, SEQ ID NO:35, SEQ ID NO:37, SEQ ID NO:38, SEQ ID NO:39, SEQ ID NO:40, SEQ ID NO:41, SEQ ID NO:42, and SEQ ID NO:43; and (b) a nucleic acid molecule comprising an allelic variant of a nucleic acid sequence of (a).
- [c4]
  The nucleic acid molecule of Claim 1, wherein said nucleic acid molecule is selected from the group consisting of: a nucleic acid molecule comprising a nucleic acid sequence encoding a protein comprising an amino acid sequence selected from the group consisting of SEQ ID NO:6, SEQ ID NO:14, SEQ ID

NO:27, SEQ ID NO:33, SEQ ID NO:64, SEQ ID NO:65, SEQ ID NO:66, SEQ ID NO:67, SEQ ID NO:68, SEQ ID NO:69, SEQ ID NO:70, and SEQ ID NO:71; and a nucleic acid molecule comprising an allelic variant of a nucleic acid molecule encoding a protein having any of said amino acid sequences.

- [c5] A recombinant molecule comprising a nucleic acid molecule as set forth in Claim 1 operatively linked to a transcription control sequence.
- [c6] A recombinant cell comprising a nucleic acid molecule as set forth in Claim 1.
- [c7] A method to produce a protein, said method comprising culturing a cell transformed with a nucleic acid molecule selected from the group consisting of:

  (a) a nucleic acid molecule having at least about 34 nucleotides wherein said nucleic acid molecule hybridizes with a nucleic acid sequence selected from the group consisting of SEQ ID NO:7, SEQ ID NO:10, SEQ ID NO:15, SEQ ID NO:18, and SEQ ID NO:39; and (b) a nucleic acid molecule having at least about 30 nucleotides wherein said nucleic acid molecule hybridizes with a nucleic acid sequence selected from the group consisting of SEQ ID NO:28, SEQ ID NO:31, SEQ ID NO:34, SEQ ID NO:37, SEQ ID NO:41 and SEQ ID NO:43, wherein said nucleic acid molecule of (a) or (b) hybridizes under conditions comprising (i) hybridizing in a solution comprising 2X SSC and 0% formamide at a temperature of 37 ° C and (ii) washing in a solution comprising 1X SSC and 0% formamide at a temperature of 52 ° C.
- [c8] The method of Claim 7, wherein said transformed cell is selected from the group consisting of *E. coli*:pGEX-nECR 612, *E. coli*:pTrc-nUSP 718, and *E. coli*:pGEX-EcR 612 943
- [c9] The method of Claim 7, wherein said protein comprises an amino acid sequence selected from the group consisting of SEQ ID NO:6, SEQ ID NO:14, SEQ ID NO:27, SEQ ID NO:33, SEQ ID NO:64, SEQ ID NO:65, SEQ ID NO:66, SEQ ID NO:67, SEQ ID NO:68, SEQ ID NO:69, SEQ ID NO:70, and SEQ ID NO:71, and an amino acid sequence encoded by a nucleic acid molecule comprising an allelic variant of a nucleic acid molecule encoding any of said amino acid sequences.
- [c10] A composition comprising an excipient and an isolated nucleic acid molecule

selected from the group consisting of: (a) a nucleic acid molecule having at least about 34 nucleotides wherein said nucleic acid molecule hybridizes with a nucleic acid sequence selected from the group consisting of SEQ ID NO:5, SEQ ID NO:7, SEQ ID NO:8, SEQ ID NO:10, SEQ ID NO:13, SEQ ID NO:15, SEQ ID NO:16, SEQ ID NO:18, SEQ ID NO:38, and SEQ ID NO:39; and (b) a nucleic acid molecule having at least about 30 nucleotides wherein said nucleic acid molecule hybridizes with a nucleic acid sequence selected from the group consisting of SEQ ID NO:26, SEQ ID NO:28, SEQ ID NO:29, SEQ ID NO:31, SEQ ID NO:32, SEQ ID NO:34, SEQ ID NO:35, SEQ ID NO:37, SEQ ID NO:40, SEQ ID NO:41, SEQ ID NO:42, and SEQ ID NO:43, wherein said nucleic acid molecule of (a) or (b) hybridizes under conditions comprising (i) hybridizing in a solution comprising 2X SSC and 0% formamide at a temperature of 37 ° C and (ii) washing in a solution comprising 1X SSC and 0% formamide at a temperature of 52 ° C.

- [c11] The composition of Claim 10, wherein said nucleic acid molecule is selected from the group consisting of nECR 2822, nECR 1680, nECR 4148, nECR 1683, nUSP 1749, nUSP 1344, nUSP 1975 and nUSP 1422
- [c12] The composition of Claim 10, wherein said nucleic acid molecule is selected from the group consisting of: (a) a nucleic acid molecule comprising a nucleic acid sequence selected from the group consisting of SEQ ID NO:5, SEQ ID NO:7, SEQ ID NO:8, SEQ ID NO:10, SEQ ID NO:13, SEQ ID NO:15, SEQ ID NO:16, SEQ ID NO:18, SEQ ID NO:26, SEQ ID NO:28, SEQ ID NO:29, SEQ ID NO:31, SEQ ID NO:32, SEQ ID NO:34, SEQ ID NO:35, SEQ ID NO:37, SEQ ID NO:38, SEQ ID NO:39, SEQ ID NO:40, SEQ ID NO:41, SEQ ID NO:42, and SEQ ID NO:43; and (b) a nucleic acid molecule comprising an allelic variant of a nucleic acid sequence of (a).
- The composition of Claim 10, wherein said nucleic acid molecule is selected from the group consisting of: a nucleic acid molecule comprising a nucleic acid sequence encoding a protein comprising an amino acid sequence selected from the group consisting of SEQ ID NO:6, SEQ ID NO:14, SEQ ID NO:27, SEQ ID NO:33, SEQ ID NO:64, SEQ ID NO:65, SEQ ID NO:66, SEQ ID NO:67, SEQ ID

NO:68, SEQ ID NO:69, SEQ ID NO:70, and SEQ ID NO:71; and a nucleic acid molecule comprising an allelic variant of a nucleic acid molecule encoding a protein having any of said amino acid sequences.